



Australian Bureau of Statistics

CensusAtSchool Australia

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Resources



CaSQ 35C – Creating a Box and Whisker Plot using Excel

You can download this activity as a rich text file (RTF) using the link at the bottom of the page.

How to: Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool Random Sampler to download a sample.

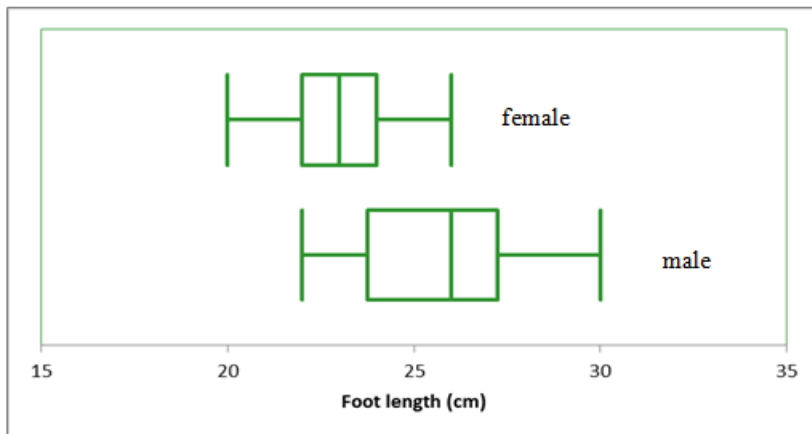
Reference year: *(Select year)* **Sample size:** *At least 40 students*

Select questions: *Foot length*

Location: *Select location* **Year level:** *(Select a range of year levels)*

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% of the respondents for the parameters entered.

This task builds on skills developed in CaSQ 35A and CaSQ 35B. In CaSQ 35B you would have developed a parallel box and whisker plot using scatter plot in Excel.



Task:

1. Download a random sample of 100 foot lengths in Excel.

Note: You can or use all data or sort and use either Male or Female data for this activity.

2. Calculate the 5 figure summary statistics for your data.

3. Develop a set of ordered pairs that will allow a box and whisker plot to be drawn with the minimum number of lines.

Note: there are 5 vertical and 4 horizontal lines in a single box and whisker plot. Can you construct a box and whisker using fewer than 9 lines?

4. Comment on the distribution.

Extension:

5. What is the minimum number of lines needed to draw the plot? How do you know?

Download the full activity:

RTF

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